

EXHIBIT

A

VICINITY MAP



DAVID EVANS AND ASSOCIATES, Inc.

2880 TRACY BOULEVARD
SUITE FOUR
TRACY, CALIFORNIA 95376
TEL: (209) 832-8299
FAX: (209) 832-8374

CITY OF TRACY

APPROVED BY:

CITY ENGINEER: _____ R.E. DATE: _____

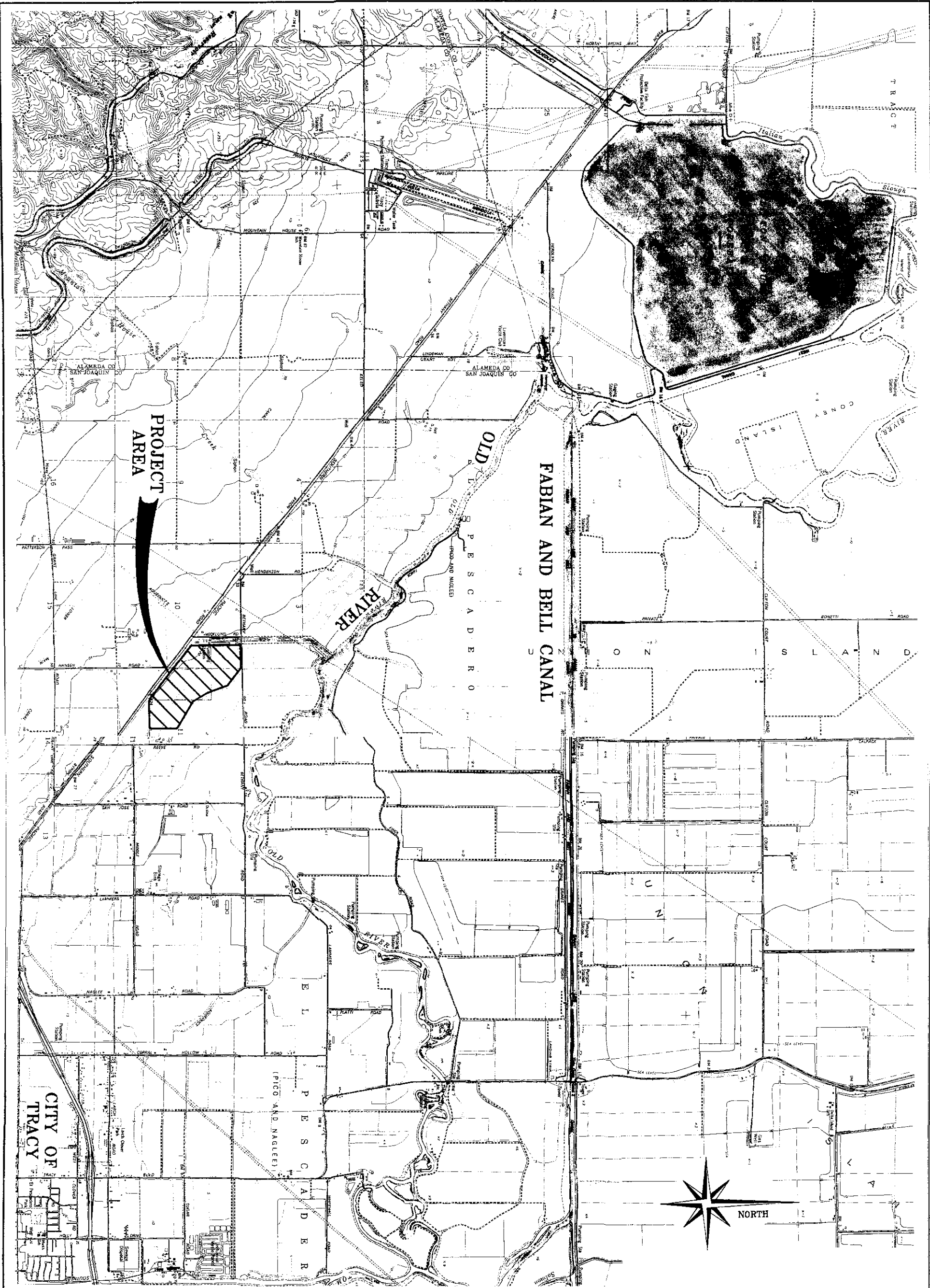



EXHIBIT
B

LOCATION MAP



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
INC.

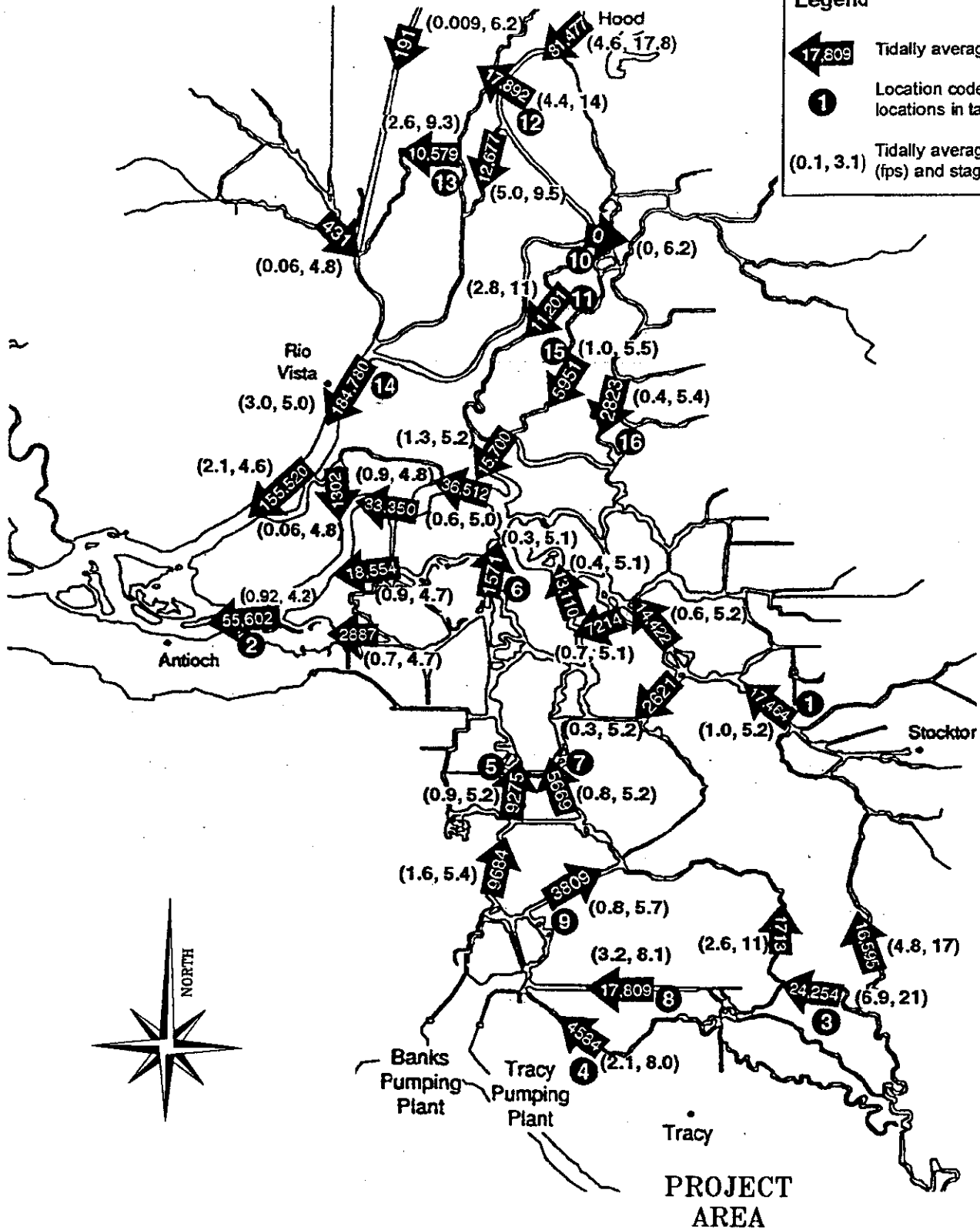
CITY OF TRACY

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CITY ENGINEER: _____ R.C.E. _____ DATE: _____

Legend

-  Tidally averaged flow rate (cfs)
-  Location code for selected locations in tables
-  Tidally averaged velocity (fps) and stage (mlw)



EXHIBIT

C

DELTA TIDAL FLOW RATES



DAVID EVANS AND ASSOCIATES, Inc.

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CITY ENGINEER: _____ R.C.E. _____ DATE: _____

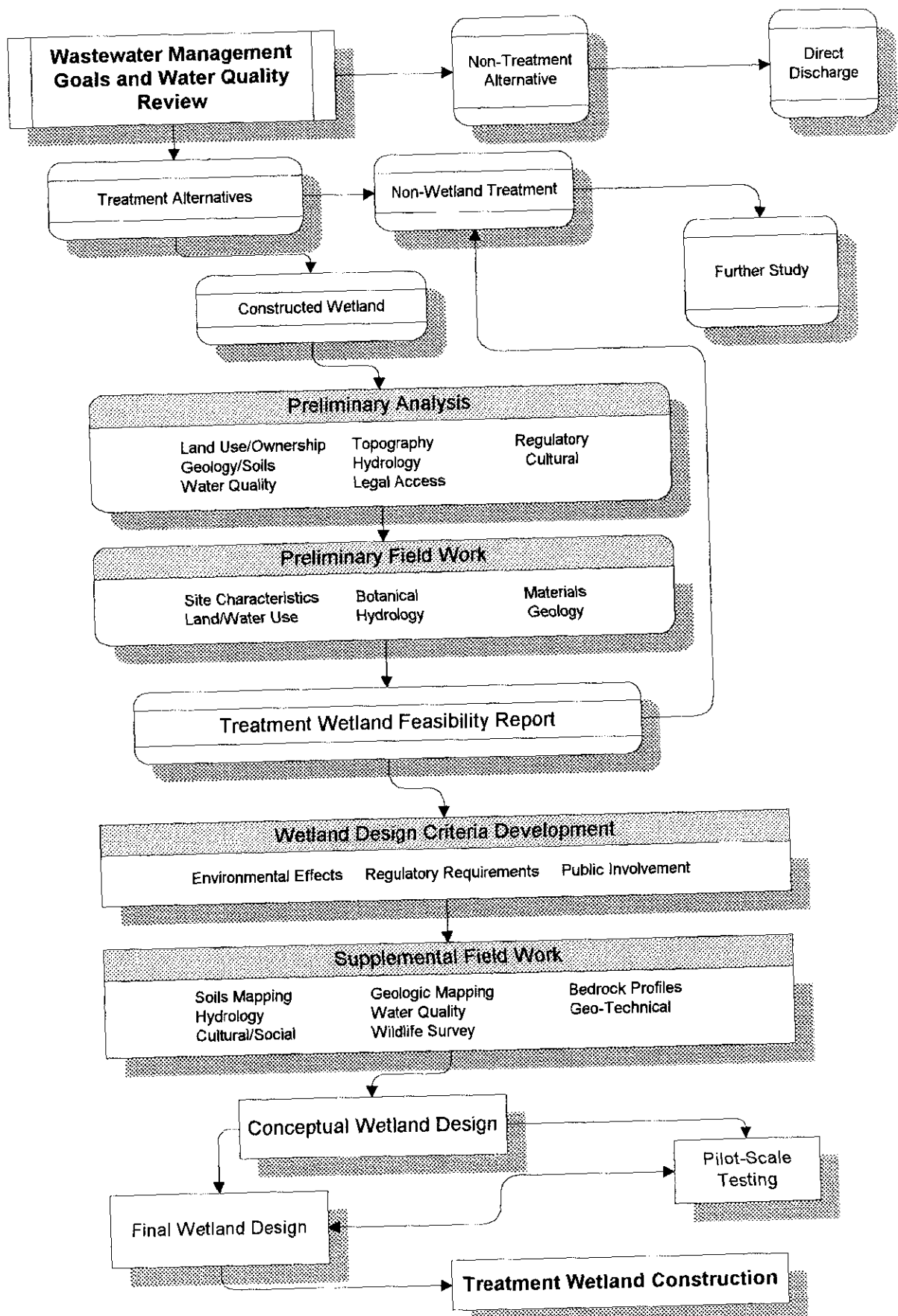
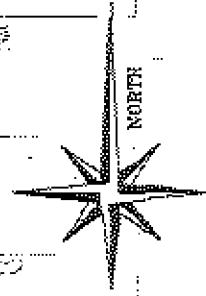
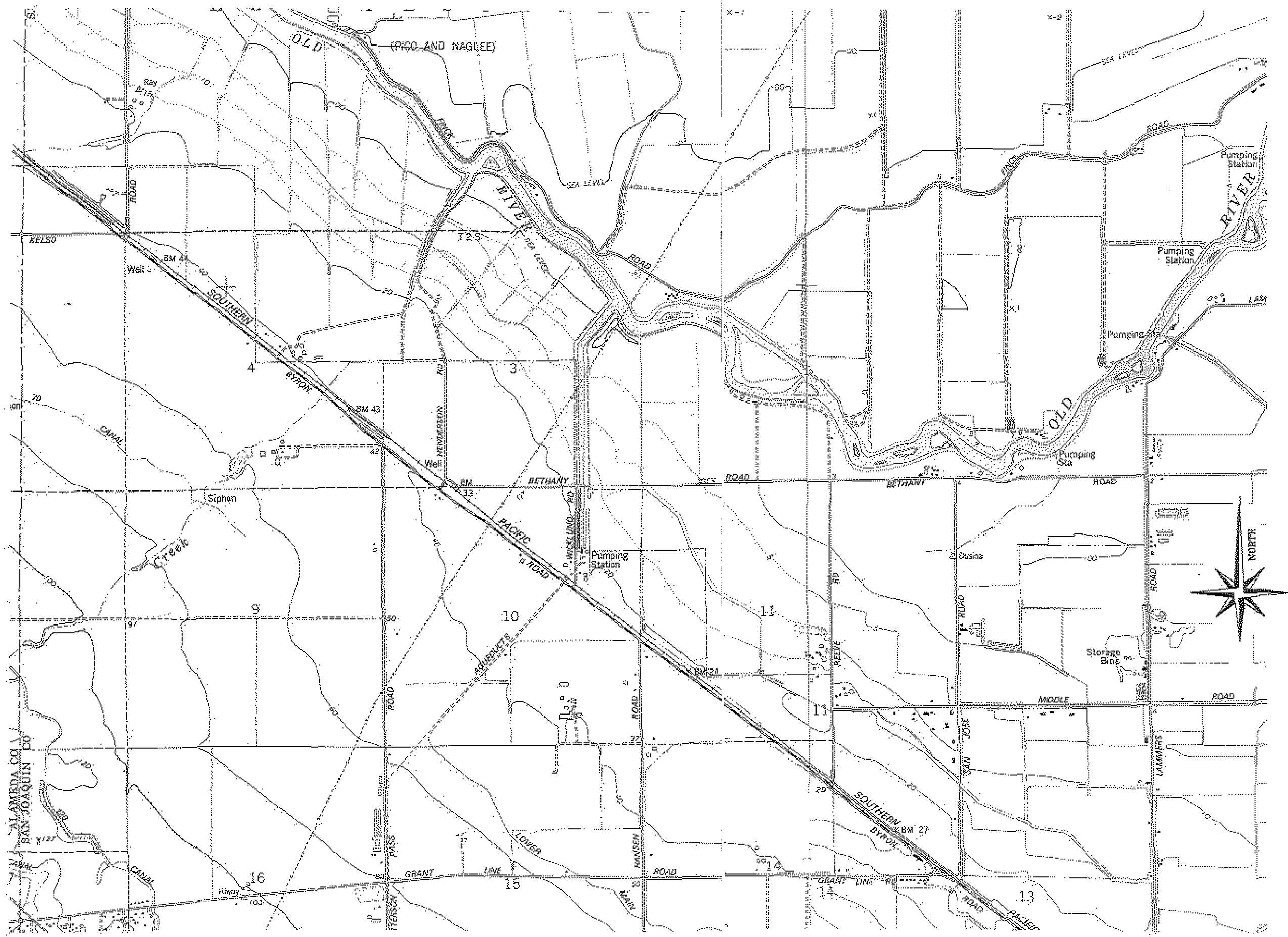
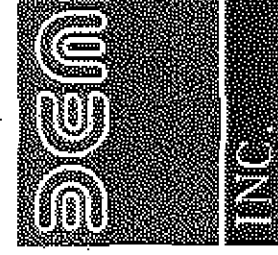


Figure 1. A Generalized Methodology for the Development of a Constructed Wetland Treatment System.



CITY OF TRACY

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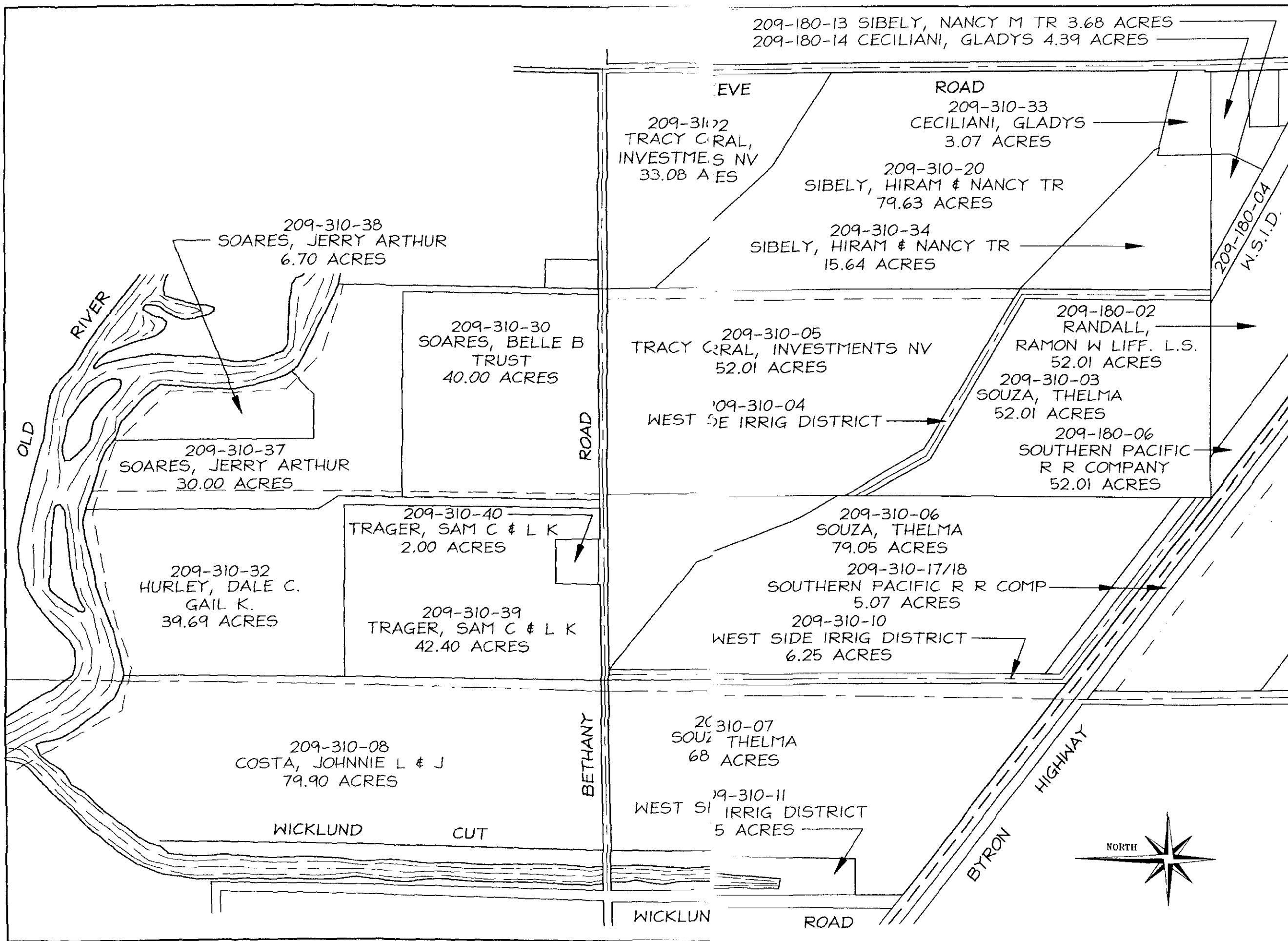
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EXISTING AREA
TOPOGRAPHY

EXHIBIT

E

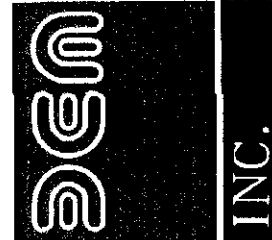
APPROVED BY: _____
CITY ENGINEER: _____ DATE: _____



CITY OF TRACY

DAVID EVANS AND ASSOCIATES, Inc.

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TRACY, CALIFORNIA 95376
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PROPERTY OWNERSHIP MAP

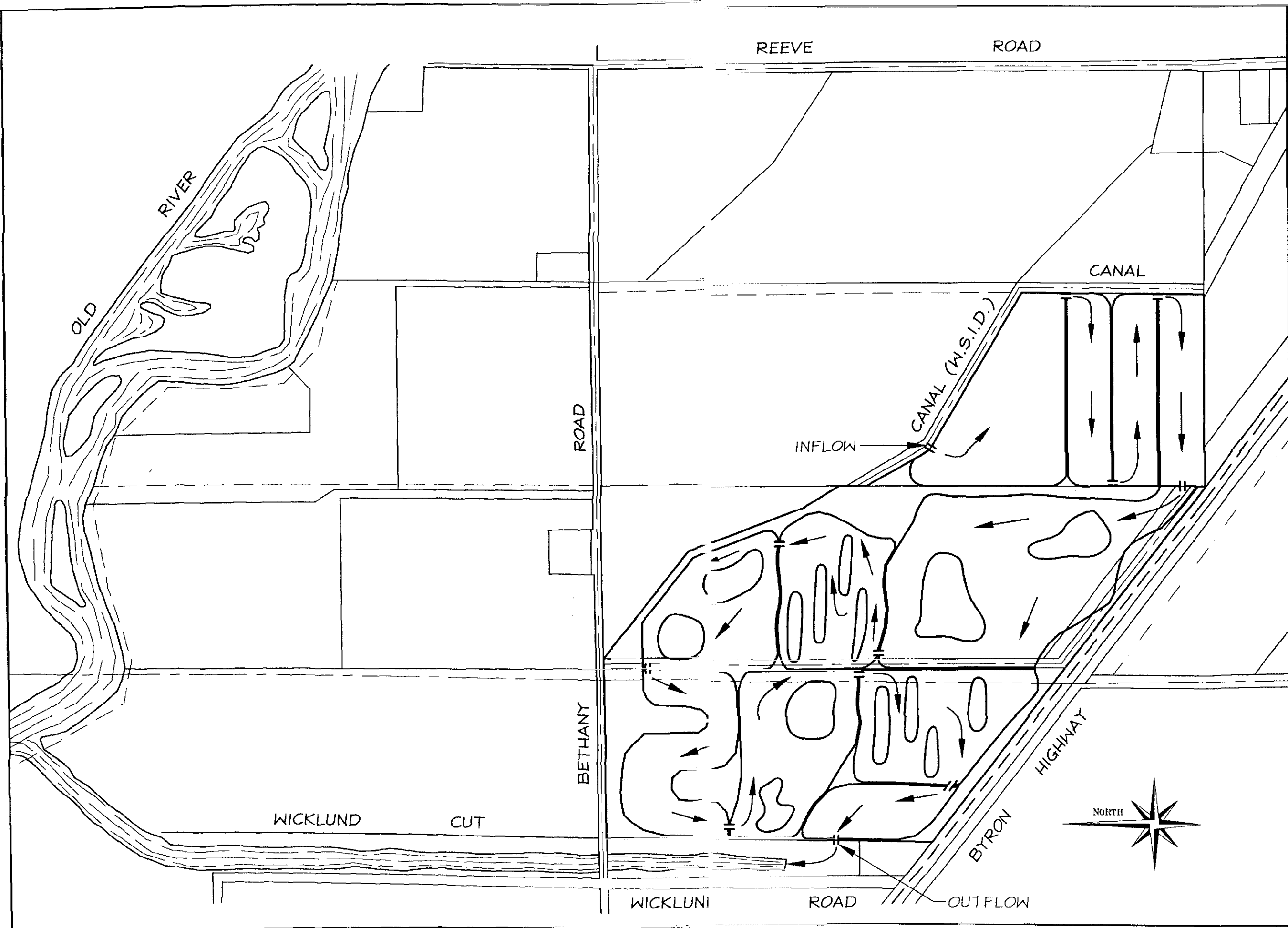
EXHIBIT

F

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CITY ENGINEER:

R.C.E. DATE:



CITY OF TRACY

DAVID EVANS AND ASSOCIATES, Inc.



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INC.

SCHEMATIC
WETLANDS
PLAN VIEW

EXHIBIT

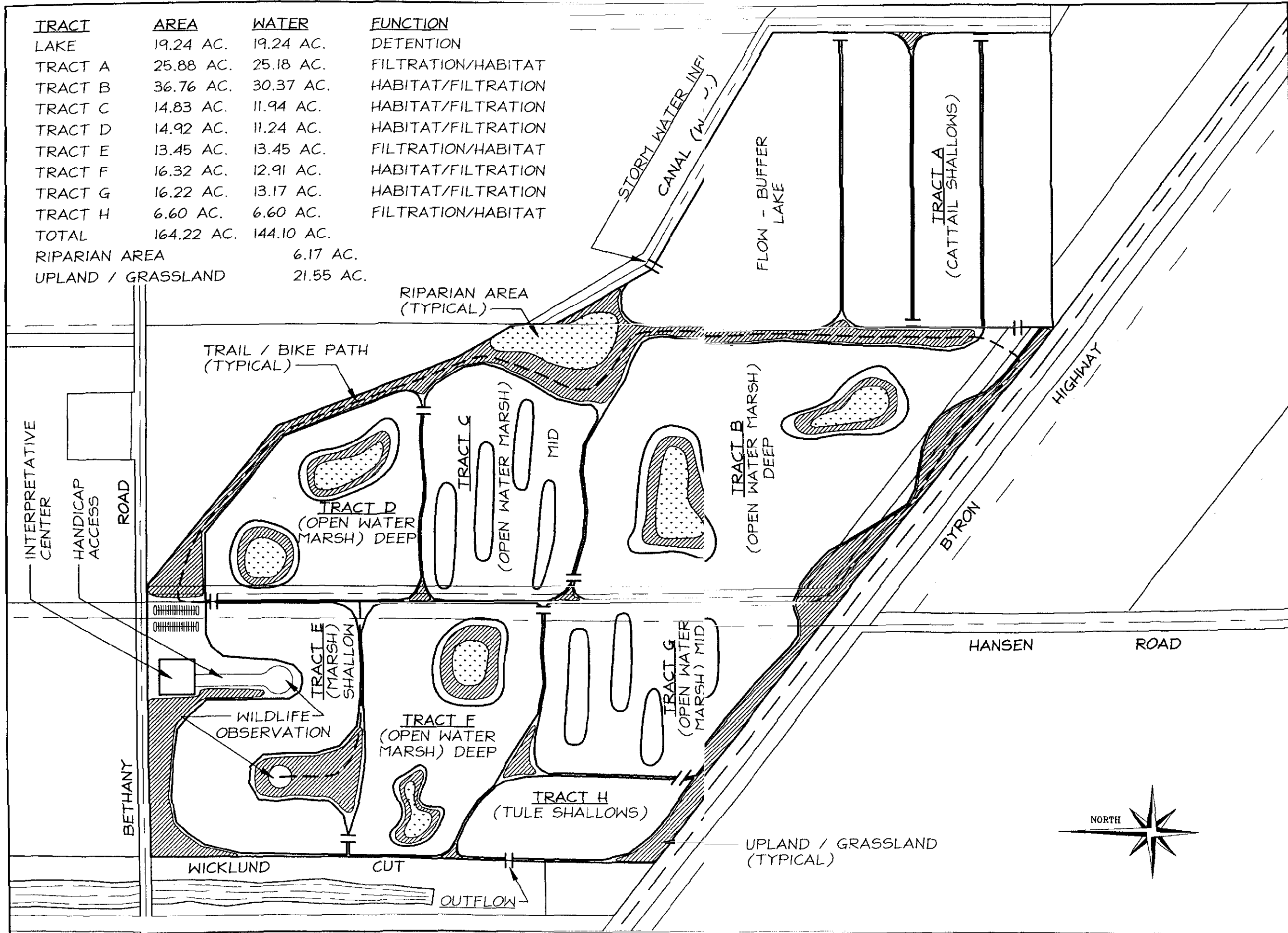
G

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CITY ENGINEER:

R.C.E. DATE:

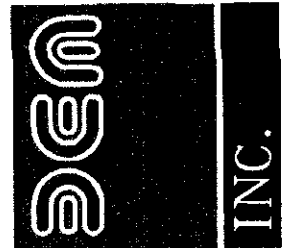
TRACT	AREA	WATER	FUNCTION
LAKE	19.24 AC.	19.24 AC.	DETENTION
TRACT A	25.88 AC.	25.18 AC.	FILTRATION/HABITAT
TRACT B	36.76 AC.	30.37 AC.	HABITAT/FILTRATION
TRACT C	14.83 AC.	11.94 AC.	HABITAT/FILTRATION
TRACT D	14.92 AC.	11.24 AC.	HABITAT/FILTRATION
TRACT E	13.45 AC.	13.45 AC.	FILTRATION/HABITAT
TRACT F	16.32 AC.	12.91 AC.	HABITAT/FILTRATION
TRACT G	16.22 AC.	13.17 AC.	HABITAT/FILTRATION
TRACT H	6.60 AC.	6.60 AC.	FILTRATION/HABITAT
TOTAL	164.22 AC.	144.10 AC.	
RIPARIAN AREA		6.17 AC.	
UPLAND / GRASSLAND		21.55 AC.	



CITY OF TRACY

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TRACY
WETLANDS
OVER VIEW

EXHIBIT

H



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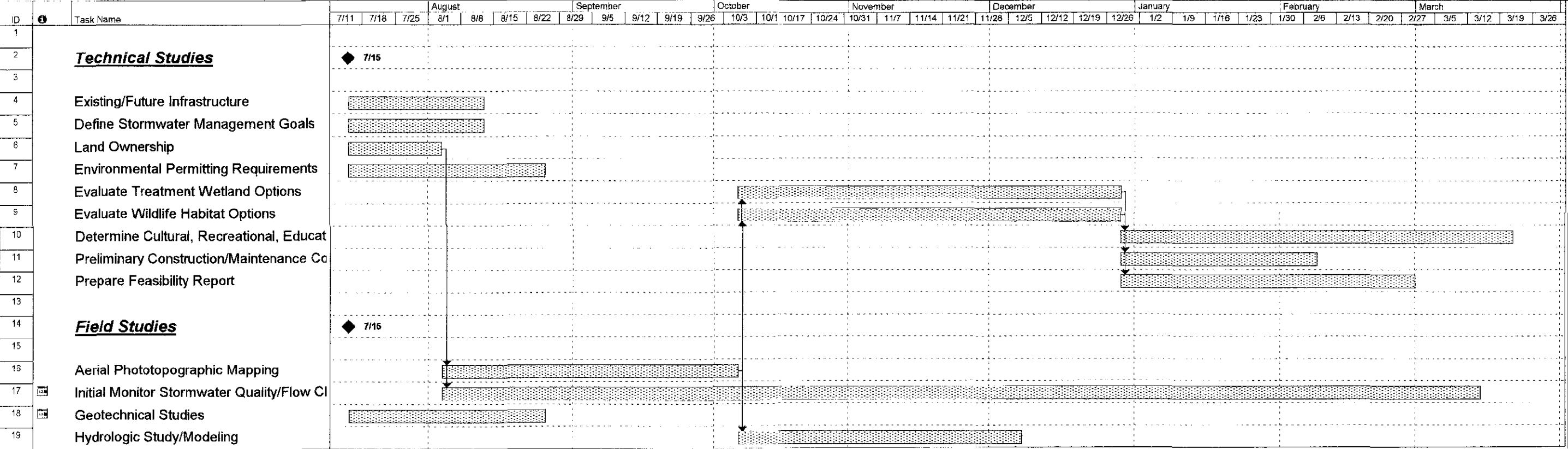
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INC.

CROSS SECTION
OF ISLAND IN
OPEN WATER MARSH

EXHIBIT

I



Project: City of Tracy Wetland
Date: Wed 4/14/99

Task

Split

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Split

Rolled Up Milestone

Rolled Up Progress

External Tasks

Project Summary

Project: City of Tracy Wetland
Date: Wed 4/14/99

Task

Split

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Split

Rolled Up Milestone

Rolled Up Progress

External Tasks

Project Summary

			TOTAL BUDGET				
TASK	DIRECT LABOR HOURS	DIRECT SALARY & BENEFITS	SERVICE CONTRACTS	MATERIAL & ACQUISITION COSTS	MISC & OTHER DIRECT COSTS	OVERHEAD & OTHER DIRECT COSTS	TOTAL COST
Existing/Future Infrastructure	68	3748				2892	6640
Stormwater Management Goals	48	2551				1969	4520
Land Ownership	12	655				505	1160
Environmental Permitting Requirements	50	2613				2017	4630
Treatment Wetlands Options	168	9031				6969	16000
Habitat Wetlands Options	164	8681				6699	15380
Cultural, Recreation, Education Benefits	88	4753				3667	8420
Preliminary Construction/Maintenance Costs	74	4036				3087	7150
Prepare Feasibility Report	136	7450				5750	13200
Aerial Phototopographic Mapping			18,000				
Monitoring Stormwater Flow/Characteristics	298	16357		3,000		12623	28980
Geotechnical Studies			7,000				
Hydrology Study/Modeling	116	5923				4577	10500
Laboratory Testing - Water Quality			5,000				
						TOTAL	\$149,580
Note:	The provisional 1999 Overhead rate for David Evans and Associates, Inc is 138.33%						
	In addition, the Facilities and Capital Costs of Money Factor in accordance with FAR 52-215.30 is 3.1%						
	The Direct Salary and Benefits Multiplier is 130.46%						

CITY OF TRACY WETLAND COST SCHEDULE							
TASK	PROJECT MANAGER	SR. WETLAND ECOLOGIST	WETLANDS BIOLOGIST	CIVIL ENGINEER	ENVIRONMENTAL ENGINEER	HYDROLOGIST	COST
Technical Studies							
Existing/Future Infrastructure	16	12		24		16	6640
Define Stormwater Management Goals	12	16		4	8	8	4520
Land Ownership	4	8					1160
Environmental Permitting Requirements	8	16	8	4	8	6	4630
Evaluate Treatment Wetlands Options	16	100	8		36	8	16000
Evaluate Wildlife Habitat Options	12	100	36		12	4	15380
Determine Cultural, Recreational, Educational Benefits	8	60	10		10		8420
Preliminary Construction/Maintenance Costs	8	12	8	24	16	6	7150
Prepare Feasibility Report	12	60		24	16	24	13200
	96	384	70	80	106	72	77100
	8640	38400	5600	8800	9540	6120	77100
Field Studies							
Aerial Phototopographic Mapping							\$18,000
Initial Monitoring Stormwater/Flow Characteristics	12	220	12	8	30	16	28980
Geotechnical Studies							\$7,000
Hydrologic Study/Modeling	12	20		8	16	60	10500
	24	240	12	16	46	76	
	2160	21600	1080	1440	4140	6840	\$64,480
					SUBTOTAL		\$141,580
			Other Expenses:	Sampling containers, storage, mileage			\$3,000
				Laboratory Work- Water Quality			\$5,000
					TOTAL		\$149,580

TASK	QUARTERLY BUDGET	QUARTERLY BUDGET	QUARTERLY BUDGET	
	JULY-SEPT 1999	OCT-DEC1999	JAN-MARCH 2000	
Existing/Future Infrastructure	6640			
Stormwater Management Goals	4520			
Land Ownership	1160			
Environmental Permitting Requirements	4630			
Treatment Wetlands Options		16000		
Habitat Wetlands Options		15380		
Cultural, Recreation, Education Benefits			8420	
Preliminary Construction/Maintenance Costs			7150	
Prepare Feasibility Report			13200	
Aerial Phototopographic Mapping	18000			
Monitoring Stormwater Flow/Characteristics	9660	9660	9660	
Geotechnical Studies	7000			
Hydrology Study/Modeling		10500		
Sampling/Laboratory Expenses	<u>2667</u>	<u>2666</u>	<u>2667</u>	
SUBTOTAL	54277	54206	41097	
			TOTAL	\$ 149,580

CALFED

City of Tracy

Jack Bond, P.E.
Project Manager

Timothy P. McCann, AICP
Project Principal
David Evans & Associates

C. Mel Lytle
Senior Wetland Economist
David Evans & Associates

Dan Heagerty
QA/QC
David Evans & Associates

Christine Marshall
Wetlands Biologist
David Evans & Associates

Rick Attanasio, P.E.
Environmental Engineer
David Evans & Associates

Jack Lonergan, P.E.
Civil Engineer
David Evans & Associates

Rick Attanasio, P.E.
Hydrologist
David Evans & Associates

DEA SUPPORT STAFF

